

WEST Search History

DATE: Wednesday, March 24, 2004

Hide? **Set Name** **Query** **Hit Count**

DB=USPT; PLUR=YES; OP=ADJ

<input type="checkbox"/>	L6	L3 and transgenic	3
<input type="checkbox"/>	L5	L2 and transgenic	15
<input type="checkbox"/>	L4	L3 and abscission	3
<input type="checkbox"/>	L3	L2 and petal	117
<input type="checkbox"/>	L2	side shoot and plant	556
<input type="checkbox"/>	L1	lateral suppressor	1

END OF SEARCH HISTORY

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NEWS	1		Web Page URLs for STN Seminar Schedule - N. America
NEWS	2		"Ask CAS" for self-help around the clock
NEWS	3	SEP 09	CA/CAPplus records now contain indexing from 1907 to the present
NEWS	4	DEC 08	INPADOC: Legal Status data reloaded
NEWS	5	SEP 29	DISSABS now available on STN
NEWS	6	OCT 10	PCTFULL: Two new display fields added
NEWS	7	OCT 21	BIOSIS file reloaded and enhanced
NEWS	8	OCT 28	BIOSIS file segment of TOXCENTER reloaded and enhanced
NEWS	9	NOV 24	MSDS-CCOHS file reloaded
NEWS	10	DEC 08	CABA reloaded with left truncation
NEWS	11	DEC 08	IMS file names changed
NEWS	12	DEC 09	Experimental property data collected by CAS now available in REGISTRY
NEWS	13	DEC 09	STN Entry Date available for display in REGISTRY and CA/CAPplus
NEWS	14	DEC 17	DGENE: Two new display fields added
NEWS	15	DEC 18	BIOTECHNO no longer updated
NEWS	16	DEC 19	CROPU no longer updated; subscriber discount no longer available
NEWS	17	DEC 22	Additional INPI reactions and pre-1907 documents added to CAS databases
NEWS	18	DEC 22	IFIPAT/IFIUDB/IFICDB reloaded with new data and search fields
NEWS	19	DEC 22	ABI-INFORM now available on STN
NEWS	20	JAN 27	Source of Registration (SR) information in REGISTRY updated and searchable
NEWS	21	JAN 27	A new search aid, the Company Name Thesaurus, available in CA/CAPplus
NEWS	22	FEB 05	German (DE) application and patent publication number format changes
NEWS	23	MAR 03	MEDLINE and LMEDLINE reloaded
NEWS	24	MAR 03	MEDLINE file segment of TOXCENTER reloaded
NEWS	25	MAR 03	FRANCEPAT now available on STN
NEWS EXPRESS			MARCH 5 CURRENT WINDOWS VERSION IS V7.00A, CURRENT MACINTOSH VERSION IS V6.0b(ENG) AND V6.0Jb(JP), AND CURRENT DISCOVER FILE IS DATED 3 MARCH 2004
NEWS HOURS			STN Operating Hours Plus Help Desk Availability
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* * * * * STN Columbus * * * * *

FILE 'HOME' ENTERED AT 09:28:24 ON 24 MAR 2004

=> file agricola caplus biosis

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

0.21

0.21

FILE 'AGRICOLA' ENTERED AT 09:28:31 ON 24 MAR 2004

FILE 'CAPLUS' ENTERED AT 09:28:31 ON 24 MAR 2004

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FILE 'BIOSIS' ENTERED AT 09:28:31 ON 24 MAR 2004

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=> s ls

L1 14586 LS

=> s l1 and (side shoot or petal formation or abscission zone)

L2 3 L1 AND (SIDE SHOOT OR PETAL FORMATION OR ABSCISSION ZONE)

=> dup rem l2

PROCESSING COMPLETED FOR L2

L3 3 DUP REM L2 (0 DUPLICATES REMOVED)

=> d 1-3 ti

L3 ANSWER 1 OF 3 CAPLUS COPYRIGHT 2004 ACS on STN

TI The promoter of **Ls** (Lateral suppressor) gene of tomato regulating **side-shoot**, petal and **abscission zone** formation and its use in development of new plant varieties

L3 ANSWER 2 OF 3 CAPLUS COPYRIGHT 2004 ACS on STN

TI The Lateral suppressor (**Ls**) gene of tomato encodes a new member of the VHIID protein family

L3 ANSWER 3 OF 3 CAPLUS COPYRIGHT 2004 ACS on STN

TI The **Ls** gene regulating **side-shoot**, petal and **abscission zone** formation and its use in the development of new plant varieties

=> d 3 pi

L3 ANSWER 3 OF 3 CAPLUS COPYRIGHT 2004 ACS on STN

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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WO 9846759	A2	19981022	WO 1998-DE1070	19980415
WO 9846759	A3	19990128		

W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DK, EE, ES, FI, GB, GE, GH, GM, GW, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM

RW: GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG

DE 19715700	A1	19981022	DE 1997-19715700	19970415
AU 9882060	A1	19981111	AU 1998-82060	19980415
AU 740653	B2	20011108		
EP 973908	A2	20000126	EP 1998-931930	19980415
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI				
JP 2000512156	T2	20000919	JP 1998-543381	19980415
BR 9814245	A	20011120	BR 1998-14245	19980415
MX 9909467	A	20000831	MX 1999-9467	19991015

=> d 2 ab

L3 ANSWER 2 OF 3 CAPLUS COPYRIGHT 2004 ACS on STN
 AB The ability of the shoot apical meristem to multiply and distribute its meristematic potential through the formation of axillary meristems is essential for the diversity of forms and growth habits of higher plants. In the lateral suppressor mutant of tomato the initiation of axillary meristems is prevented, thus offering the unique opportunity to study the mol. mechanisms underlying this important function of the shoot apical meristem. We report here the isolation of the Lateral suppressor gene by positional cloning and show that the mutant phenotype is caused by a complete loss of function of a new member of the VHIID family of plant regulatory proteins.

=> d 2 so

L3 ANSWER 2 OF 3 CAPLUS COPYRIGHT 2004 ACS on STN
 S0 Proceedings of the National Academy of Sciences of the United States of America (1999), 96(1), 290-295
 CODEN: PNASA6; ISSN: 0027-8424

=> s lateral suppressor

L4 41 LATERAL SUPPRESSOR

=> s l4 and transgenic

L5 4 L4 AND TRANSGENIC

=> dup rem l5

PROCESSING COMPLETED FOR L5

L6 4 DUP REM L5 (0 DUPLICATES REMOVED)

=> d 1-4 ti

L6 ANSWER 1 OF 4 CAPLUS COPYRIGHT 2004 ACS on STN
 TI Two new gibberellin responsive genes of the GRAS gene family in rice induced by N-acetylchitoooligosaccharide elicitor

L6 ANSWER 2 OF 4 CAPLUS COPYRIGHT 2004 ACS on STN
 TI The promoter of Ls (**Lateral suppressor**) gene of tomato regulating side-shoot, petal and abscission zone formation and its use in development of new plant varieties

L6 ANSWER 3 OF 4 AGRICOLA Compiled and distributed by the National Agricultural Library of the Department of Agriculture of the United States of America. It contains copyrighted materials. All rights reserved. (2004) on STN
 TI The **Lateral suppressor** (Ls) gene of tomato encodes a new member of the VHIID protein family.

L6 ANSWER 4 OF 4 AGRICOLA Compiled and distributed by the National Agricultural Library of the Department of Agriculture of the United States

of America. It contains copyrighted materials. All rights reserved.
(2004) on STN

TI Increase of endogenous zeatin riboside by introduction of the *ipt* gene in wild type and the **lateral suppressor** mutant of tomato.

=> d 4 a

'A' IS NOT A VALID FORMAT

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REENTER DISPLAY FORMAT FOR ALL FILES (FILEDEFAULT):ab

L6 ANSWER 4 OF 4 AGRICOLA Compiled and distributed by the National Agricultural Library of the Department of Agriculture of the United States of America. It contains copyrighted materials. All rights reserved.
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AB We studied axillary meristem formation of the **lateral suppressor** (*ls*) mutant of tomato after elevating the endogenous cytokinin levels through introduction of the isopentenyltransferase (*ipt*) gene from *Agrobacterium tumefaciens*. Growth and development of several transformants were examined during in vitro culture. Transformants exhibited phenotypes varying in severity and were divided into four classes. A number of the *ipt* transformants had a normal phenotype, as non-transformed plants. Others showed a mild to severe 'cytokinin-like' phenotype. Transformants with a mild phenotype exhibited reduced internode length and reduced root development. Transformants with a severe phenotype showed even shorter internodes, loss of apical dominance, reduction of leaf size, production of callus at the basis of the shoots and absence of root development or development of green non-branching roots. The severity of the phenotype correlated well with the level of *ipt* gene expression, as measured by northern analysis. Transformants with a severe phenotype also exhibited increased levels of zeatin riboside, but zeatin levels were not elevated. The increase in endogenous zeatin riboside levels in the *ls* mutant did not restore axillary meristem formation, but sometimes bulbous structures were formed in the initially 'empty' leaf axils. Several adventitious meristems and shoots developed from below the surface of these structures. It is concluded that a reduced level of cytokinins in the *ls* mutant shoots is not responsible for the absence of axillary meristem formation.

=> d ab

L6 ANSWER 1 OF 4 CAPLUS COPYRIGHT 2004 ACS on STN

AB Novel gibberellin-responsive genes, *CIGR1* and *CIGR2*, induced by N-acetylchitoooligosaccharide elicitor, encoded proteins, recombinant expression in plant cells and plants, are disclosed. Antisense nucleic acid, ribozyme coding nucleic acid, and RNAi causing nucleic acid, for inhibiting the expression of those genes, are claimed. Using DNA microchips having 1265 types of rice ESTs bound thereto, search for genes whose expression is induced at the early stage of the elicitor treatment. The authors identified two new members of the GRAS gene family from rice, *CIGR1* and *CIGR2*, which are rapidly induced upon N-acetylchitoooligosaccharide elicitor perception. The predicated proteins encoded by *CIGR1* and *CIGR2* possess significant sequence similarity with previously identified members of the GRAS family, such as Arabidopsis SCARECROW, GAI, RGA, tomato **Lateral suppressor**, and rice SLR1, all of which have VHIID regions, likely to play a role in cellular signaling. Fusions of *CIGR1* and *CIGR2* with Green Fluorescent Protein were detected exclusively in the nuclei of onion epidermal cells. The expression of *CIGR1* and *CIGR2* was dependent on the structure of N-acetylchitoooligosaccharides, which parallels the structural specificity

for chitin binding to the plasma membrane-localized chitin-binding protein, and independent of de novo protein synthesis. Co-cultivation of rice cells with rice blast fungus strongly induced the expression of CIGR1 and CIGR2, whereas inoculation of suspension cells with phytopathogenic bacteria did not. The authors hypothesize that CIGR1 and CIGR2 act as transcriptional regulators in the early events of the elicitor-induced defense response in rice.

=> d 2 ab

L6 ANSWER 2 OF 4 CAPLUS COPYRIGHT 2004 ACS on STN
AB The promoter of the Ls (**Lateral suppressor**) gene of tomato is characterized for use in the developmentally regulated expression of foreign genes in plants. The gene is only expressed in meristems. The gene was cloned by complementation and reporter gene methods were used to characterize the promoter and functionally significant regions of t.

=> s ((theres n?) or (theres, n?))/au
L7 5 ((THERES N?) OR (THERES, N?))/AU

=> dup rem l7
PROCESSING COMPLETED FOR L7
L8 3 DUP REM L7 (2 DUPLICATES REMOVED)

=> d 1-3 ti

L8 ANSWER 1 OF 3 CAPLUS COPYRIGHT 2004 ACS on STN
TI The promoter of Ls (Lateral suppressor) gene of tomato regulating side-shoot, petal and abscission zone formation and its use in development of new plant varieties

L8 ANSWER 2 OF 3 CAPLUS COPYRIGHT 2004 ACS on STN
TI The Ls gene regulating side-shoot, petal and abscission zone formation and its use in the development of new plant varieties

L8 ANSWER 3 OF 3 AGRICOLA Compiled and distributed by the National Agricultural Library of the Department of Agriculture of the United States of America. It contains copyrighted materials. All rights reserved. (2004) on STN DUPLICATE 1
TI Cloning of the Bz2 locus of Zea mays using the transposable element Ds as a gene tag.